

TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF
THE PROCESSING OF AGRICULTURAL PRODUCTS
INVENTOR: William Robert Pope, et. al.
DOCKET #: 16527 /deb, mah

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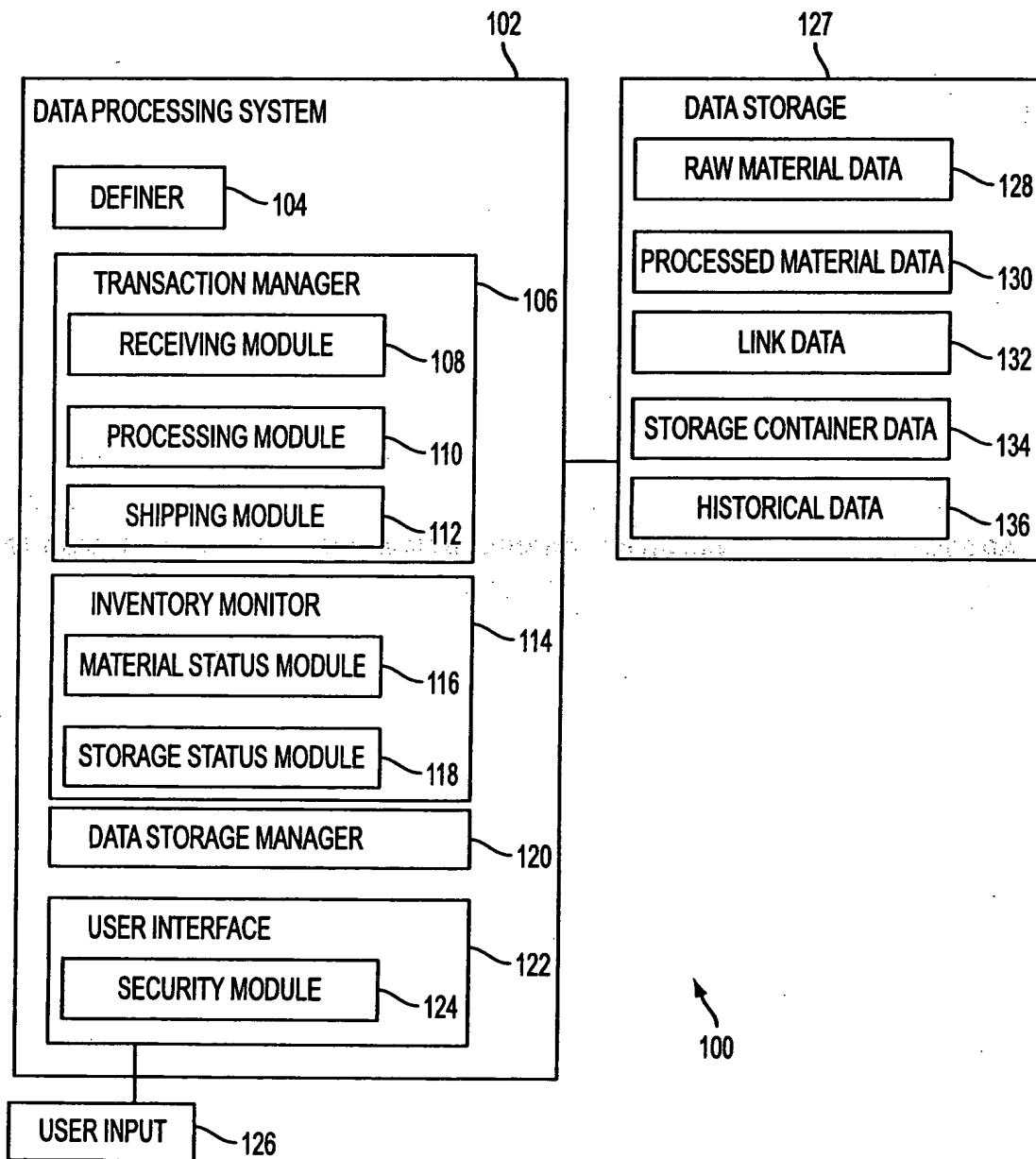


FIG. 1

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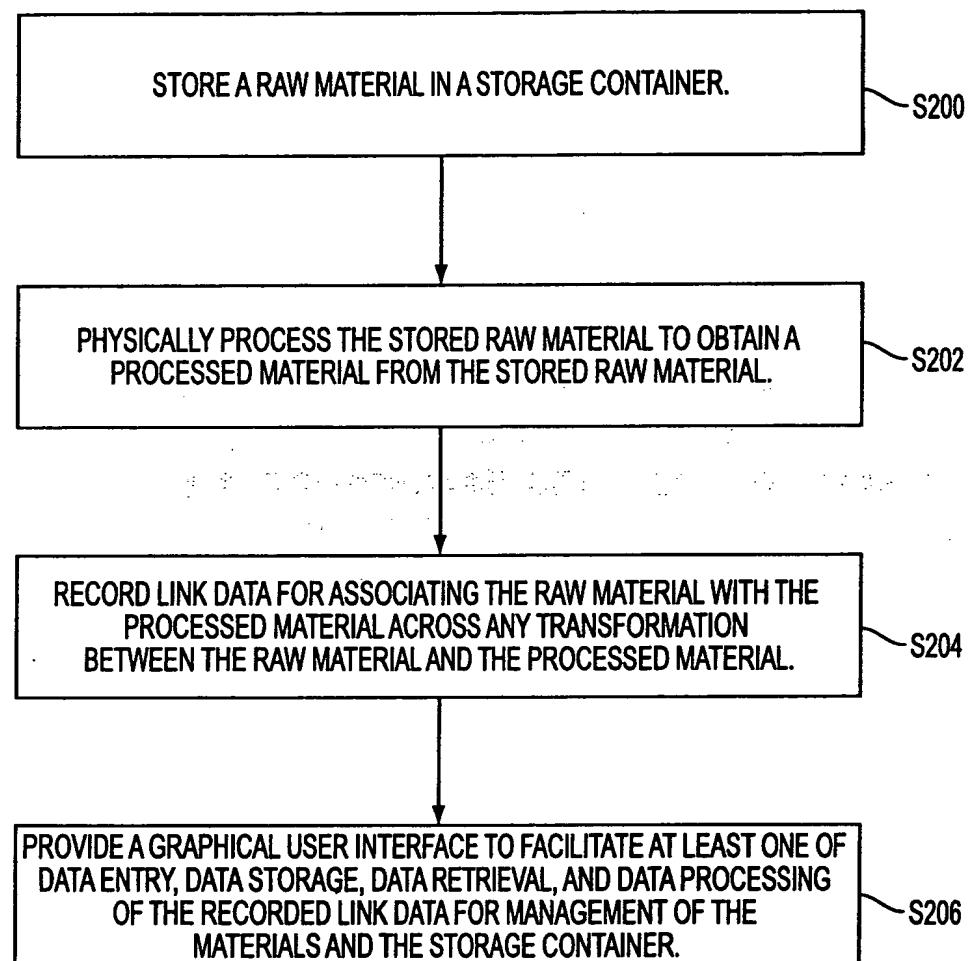


FIG. 2

**TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF
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Current locations in the system

Location Configuration

Current Location List (Click to Edit)

Location Name: _____
Address Line 1: _____
Address Line 2: _____
City: _____
Zip: _____
Country: _____
State/Province: _____
Phone: _____
Fax: _____
Ext: _____
Preferred Capacity Unit...
Dimension Unit...

Add/Save Delete Reset

Defines units for reports -
Bushels, pounds, etc.

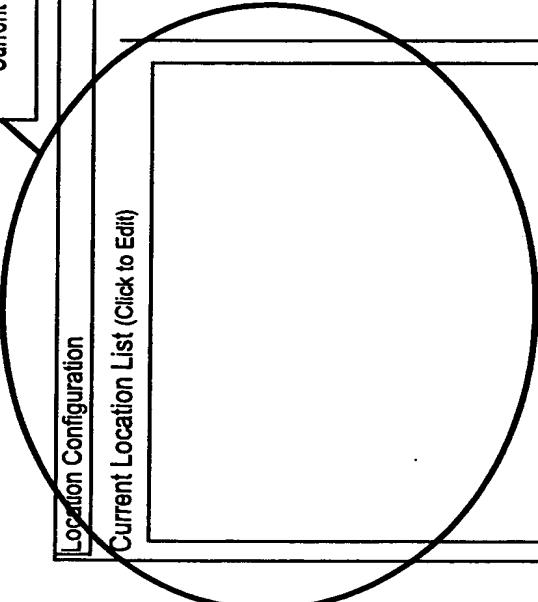


FIG. 3

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Bin Configuration

Current Bin List (Click to Edit)

Elevator 1 - Silo 1
Elevator 1 - Silo 2
Elevator 1 - Silo 3
Elevator 1 - Silo 4
Elevator 1 - Silo 5
Elevator 2 - Silo 1
Elevator 2 - Silo 2
Elevator 2 - Silo 3

Bin Name: Silo 2 **Location...** Elevator 1

Shape... **Elevator 1**

Floor/Bottom... **Elevator 1**

Ceiling Type... **Elevator 1**

Flow Type... **FIFO**

Units... **Bushels**

Pack Factor: 2.1

Total Capacity: Bushels

Capacity Per Unit:

Quantity: 1000 **Bushels**

Per: **Units...**

Effective Height: 300 **Foot**

Units: **Foot**

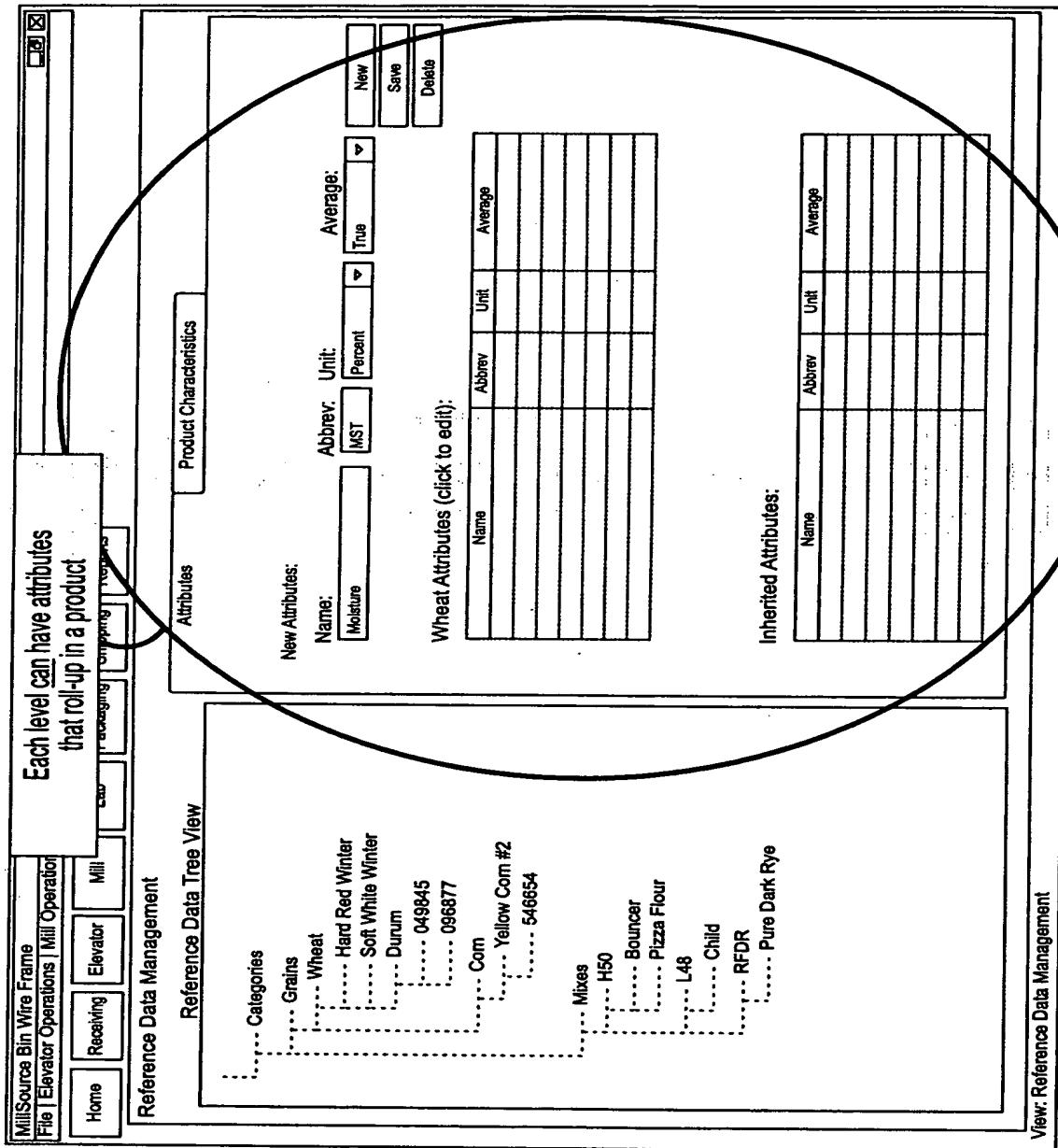
Add/Save **Delete** **Reset**

Defines the flow method to use
for calculating outbound
movement of product from bin
(FIFO, LIFO, or Perpetual)

FIG. 4

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FIG.

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MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home | Receipting | Elevator | Mill | Lab | Packaging | Shipping | Reports

Reference Data Management

Reference Data Tree View

Categories

Products can have assigned color

Product Characteristics

Attributes

Product Name: Bouncer ENR

SKU: 123456789

Description:

Color... 566334

Pack Factor: 1.0

Conversion Factor

ass... Pound

Factor: 0.63

Volume... Bushel

L48 Child RFDR Pure Dark Rye

New Save Delete

View: Reference Data Management

FIG. 6

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Product Specification Sheet

Current Product List (click to edit)

Mixes

Category...

Product Name	SKU	Specification
Mix A	N	N
Mix B	N	N
Mix C	N	N
Mix OO	N	N

Product can be composed of up to five products in the specification

Product Name: Bouncer ENR

Product 1... % 50

Product 2... % 50

Product 3... %

Product 4... %

Product 5... %

Total: 100 %

Add/Save

Delete

Reset

FIG. 7

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Ingredient Configuration

Current Ingredient List (Click to Edit)

Ingredient Name:

Ingredient Abbreviation:

Description:

Manufacturer:

SKU/Product Id:

Status...

Add/Save

Delete

Reset

X

FIG. 8

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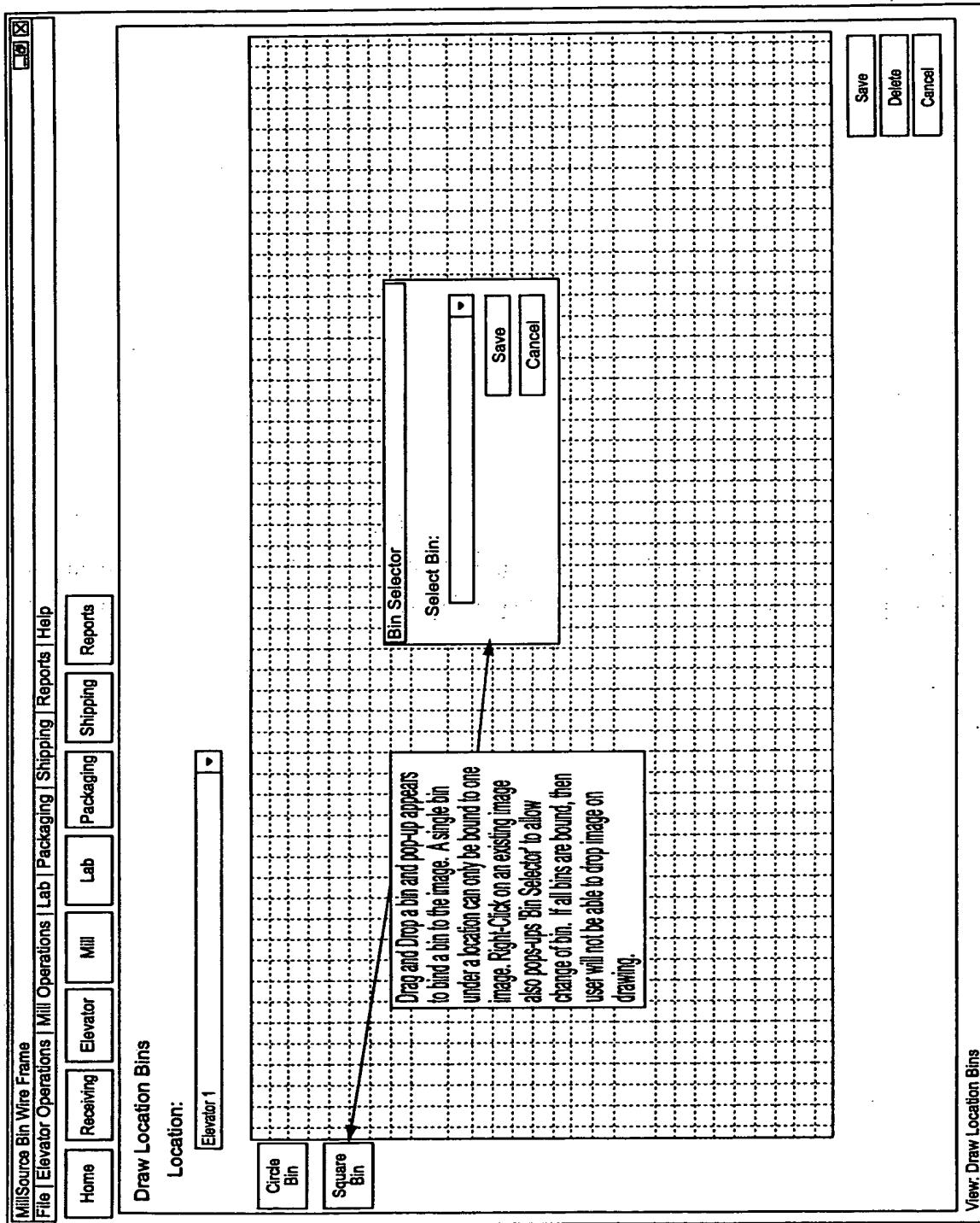


FIG. 9

**TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF
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MillsSource Bin Wine Frame

File **Elevator Operations** **Mill Operations** **Lab** **Packaging** **Shipping** **Reports** **Help**

Panels

Receiving

Lot Name/Number: 3/25/2003

Date... 3/25/2003

Time... 2:00 PM

Supplier...

Carrier... Selected Freight

License Number: YELL-123

Changes based on carrier type (truck, rail, vessel; license, railcar, vessel respectively)

Commodity... Wheat

Class... Hard Red Winter

Variety... Durum

Mass Unit... Pounds

Test Weight: .52

Volume Unit... Bushels

Note: Uses test weight to calculate; otherwise defaults to product conversion factor

Attribute lists will vary so do not auto-start selector (dynamic draw on panel; scroll displays as needed)

Date and Time are auto-populated w/ system date and time

Validate numeric only with '.' allowed for floating decimals (applies % attributes) when not using the input control below

Protein: 11.3

Moisture: 2.3

Damage: 1.3 %

Foreign Material: 5 %

Attribute list is populated based on product

Next Step >> **Clear**

FIG. 10

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MillSource Bin Wise Frame

File | Elevator Operations | Mill | Open | Bin Selector

Home | Receiving | Elevator | Current selection:

Add Ticket | Void Ticket

Please select bin:

Location - Bin: Elevator 1 - Silo 1

Current Product: Soft White Winter

Current Quantity: 10,000 bu

Available Space: 20,000 bu

Transfer Percentage:

Enter | Cancel

Bin Selector

Lot Name/Number	Bin 1...	Flour AB	Final Product Mill - Silo 1	34,500 Bu	50
3/30/2003 - 1 - 1	Bin 2...	Flour AB	Final Product Mill - Silo 2	34,500 Bu	50
3/30/2003 - 1 - 2	Bin 3...				
	Bin 4...				

Total Transfer: 100

© Print Copies: 1

Commit | Reset | Close

FIG. 11

**TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF
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MSISource Bin Wire Frame

File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home | Receiving | Elevator | Mill | Lab | Packaging | Shipping | Reports

Facility Summary

Grain | Mixes

The locations tracked

Location	Quantity
Elevator 1	10,234
Mill 1	10,000
Mill 2	45,900
Mill 3	38,000
Mill 4	50,855
Mill 5	5,760
Total	68,134
SWW	134,673
MTND	33,460
MTND Springs	50,655

The products tracked

Product	Quantity
Nebraska Wtr	12,209
Arizona Durum	5,900
Madican A	45,455
Total	15,567

Total this product all locations

Total of all products at this location

View: Facility Summary

FIG. 12

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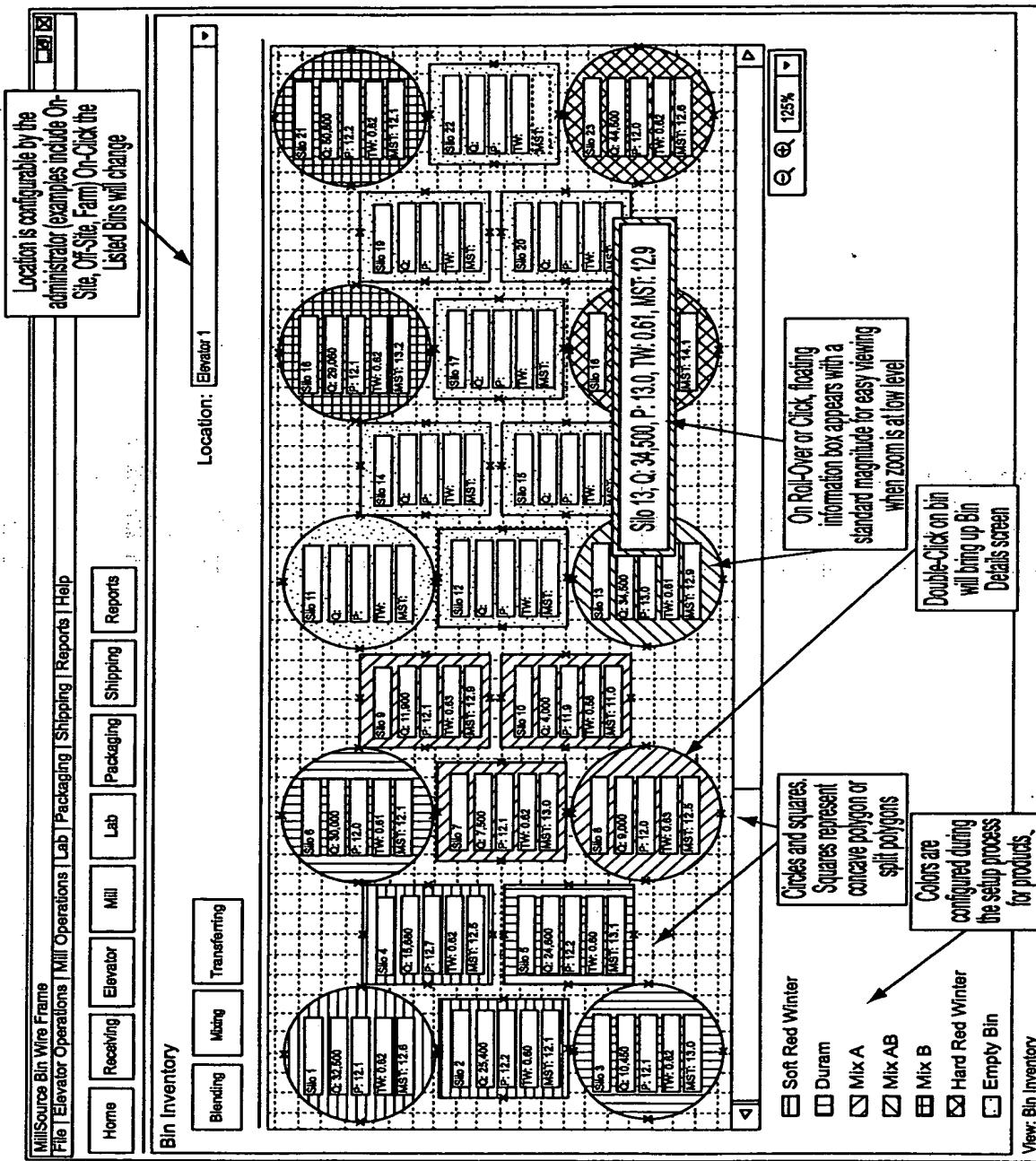


FIG. 13A

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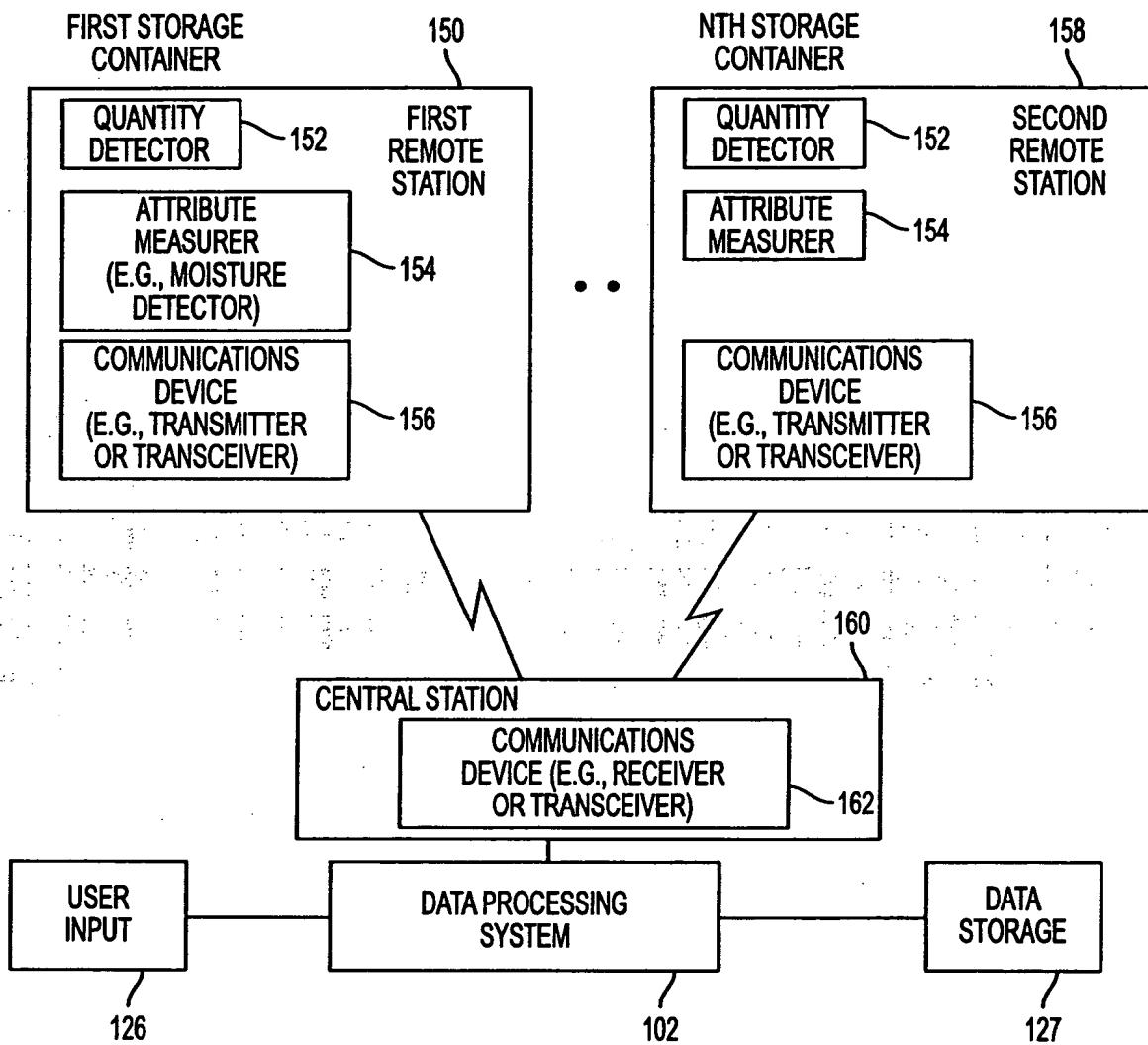


FIG. 13B

**TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF
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MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Lab

Select either Lot or Bin:

Existing Analysis (Click to edit):
Name/Number Bin/Lot Date/Time

New Analysis

Analysis Information

Date...
Time...
Analysis Number/Name:

Attribute Values

Protein: %
Moisture: %
Damage: %
Foreign Material: %

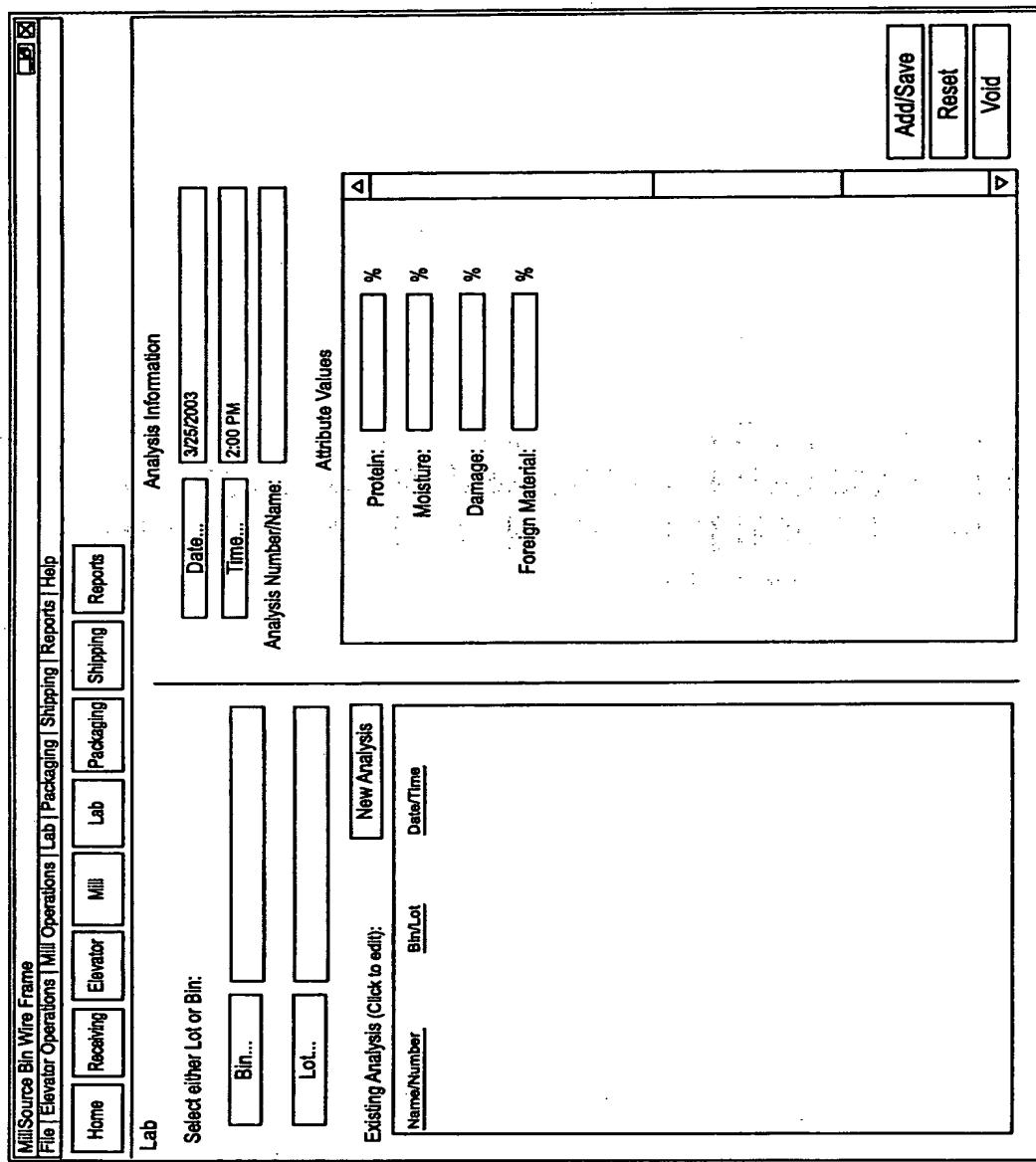


FIG. 16

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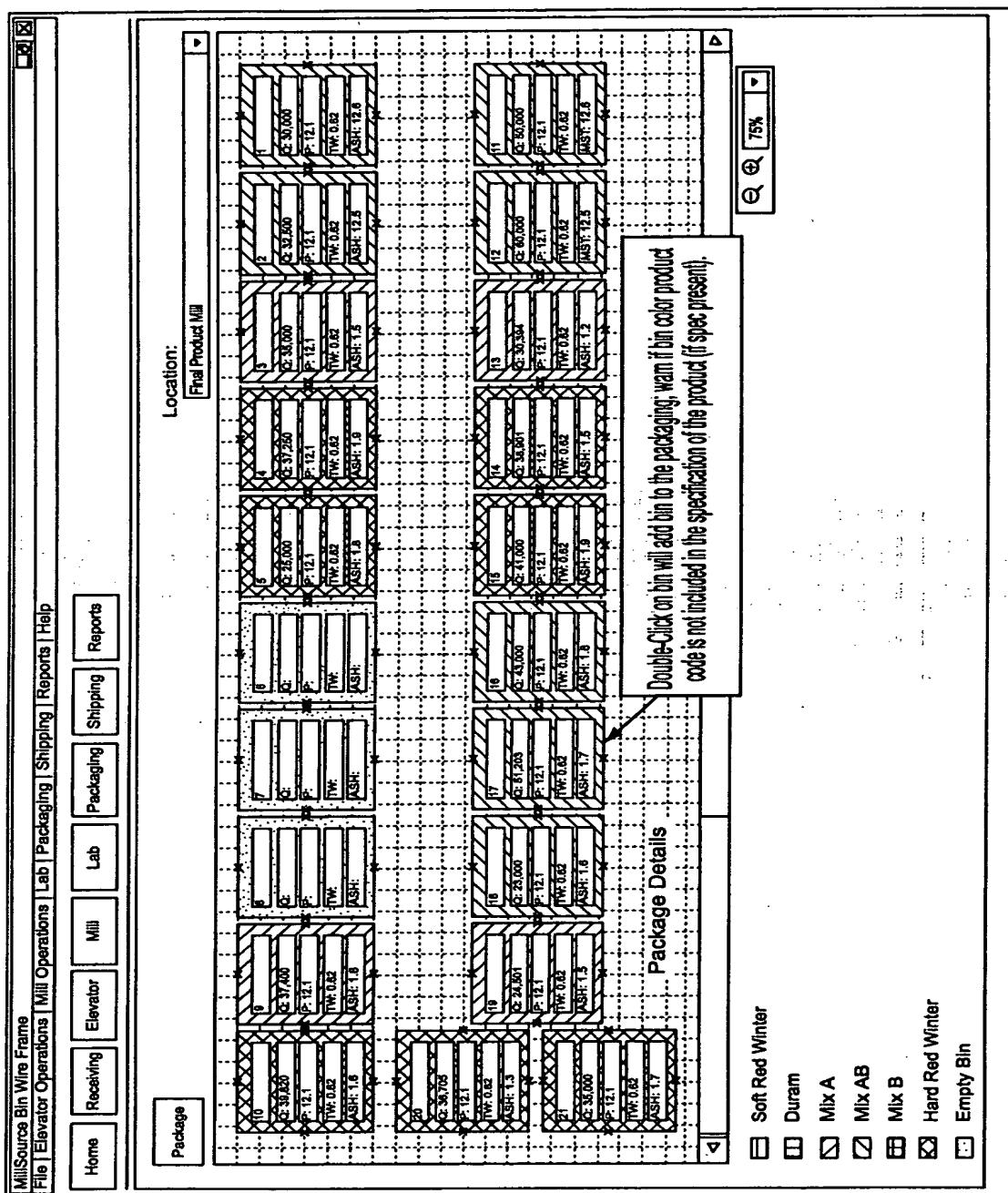


FIG. 17

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Storage Summary
Bin Inventory
Selected Bin: All
Commodity: Hard Red Winter
Date: 9/9/2002 - 12/05/2002

Silo 1
 Headquarters location
 Lat/Long

Capacity	Current	Protein	Moisture	Last Add	Last Draw
150,000bu	98,088bu	13.3	12.0	12/01/2002	12/05/2002

Lot #	Date	Variety	Protein	Moisture	Test Wt.	FM	Quantity
4567	09/09/2002	HRW - Duram	13.2	12.1	61.1	1	5,144
4568	09/09/2002	HRW - Duram	13.3	11.8	61.0	2	5,255
4569	09/10/2002	HRW - Duram	13.5	12.0	60.4	1.3	6,123
4575	10/12/2002	HRW - Duram	13.5	12.0	60.2	1	5,100
4580	10/30/2002	HRW - Duram	13.3	12.0	61.0	2	5,315
4582	11/23/2002	HRW - Duram	13.4	12.2	60.5	2	5,533
4583	12/01/2002	HRW - Duram	13.3	12.1	60.0	1	5,500

Silo 2
 Headquarters location
 Lat/Long

Capacity	Current	Protein	Moisture	Last Add	Last Draw
100,000bu	75,050bu	14.0	11.5	11/01/2002	11/30/2002

Lot #	Date	Variety	Protein	Moisture	Test Wt.	FM	Quantity
6767	09/10/2002	HRW - Yuma	14.2	12.1	61.1	3	6,445
6768	09/10/2002	HRW - Yuma	13.8	11.3	61.0	3.6	4,355
6769	10/01/2002	HRW - Yuma	14.5	12.0	60.3	4	5,232

FIG. 18

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Event Report
 Selected Bin: Silo 1
 Commodity: Hard Red Winter
 Date: 11/01/2002 - 12/05/2002

Silo 1 Headquarters location
 Lat/Long

SUMMARY

Capacity	Current	Protein	Moisture	Last Add	Last Draw
150,000bu	98,088bu	13.3	12.0	12/01/2002	12/05/2002

OPERATION / EVENT

Allocate Inbound

Create Lot: 4568

Operator: Joe Smith

Start Date/Time	Stop Date/Time	Variety	Protein	Moisture	Test Wt	Quantity	Locked	Unlocked
11/09/2002 10:10am	11/09/2002 10:12am	HRW - Duram	14.2	12.1	61.1	5,122	N	Y

Aerate Bin

Lock Bin

Unlock Bin

Operator: John Doe

Start Date/Time	Stop Date/Time	Variety	Protein	Moisture	Test Wt	Quantity	Locked	Unlocked
11/10/2002 03:30pm	11/12/2002 08:00am						Y	Y

FIG. 19

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Supplier Report
Date: 1/01/2002 - 12/09/2002
Commodity: Hard Red Winter

Name	Quantity/bu
Joe Farmer RR2 Box 46 Anywhere, NE 68888 (402)333-3333	54,000
Dakota Farms Box 27 Anywhere, SD 69999 (999)999-9999	65,656
Country Elevators Box 98 Anywhere, SD 69999 (999)677-7777	98,095
Total Quantity:	217,751

FIG. 20

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FIG. 21

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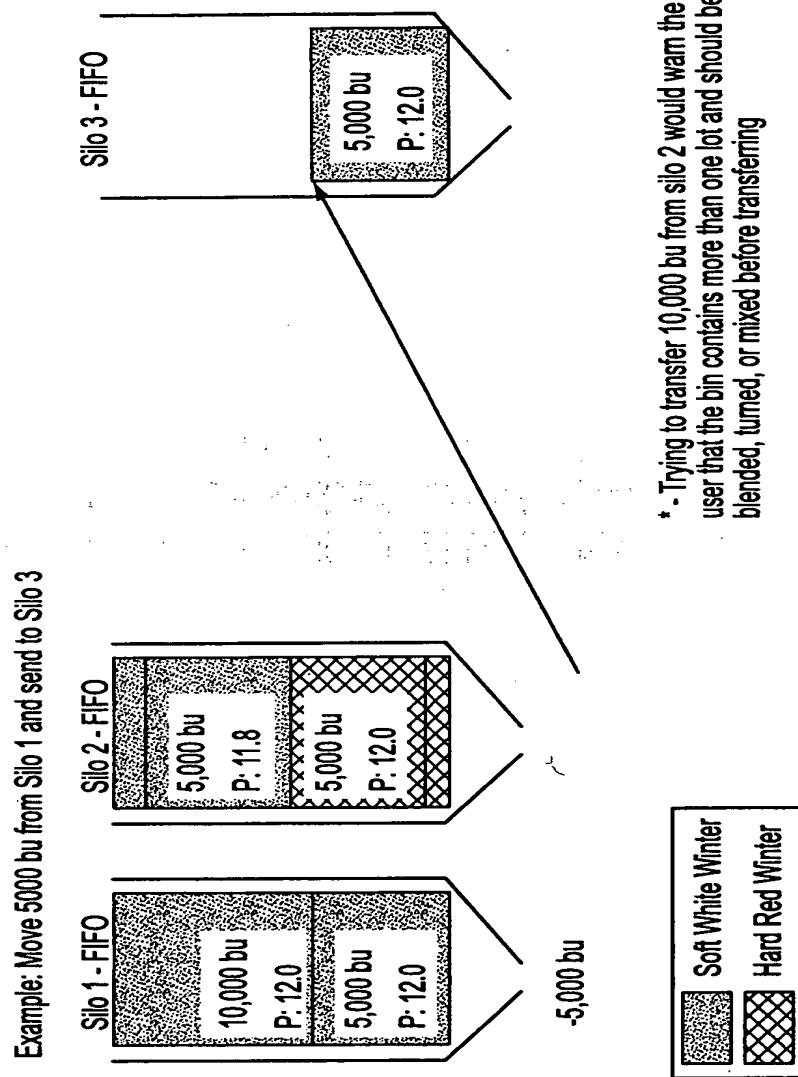


FIG. 22

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Example: Mix 5000 bu from Silo 1 with 5000 bu from Silo 2 and send to Silo 3

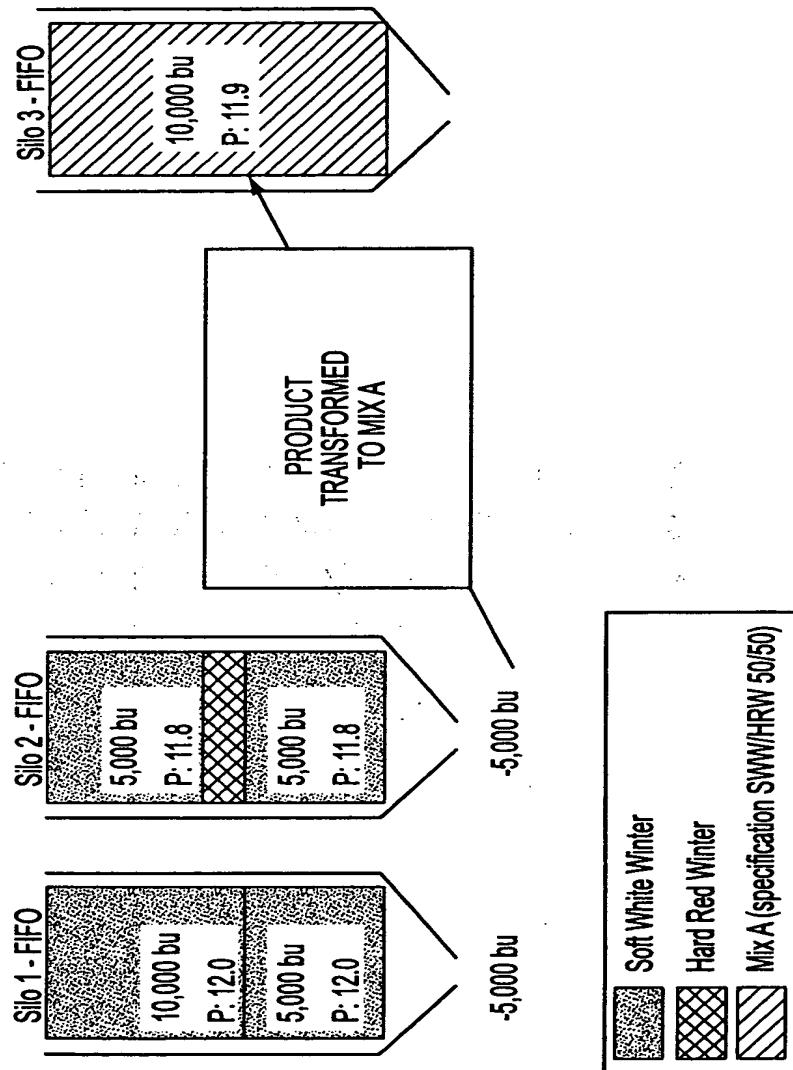


FIG. 23

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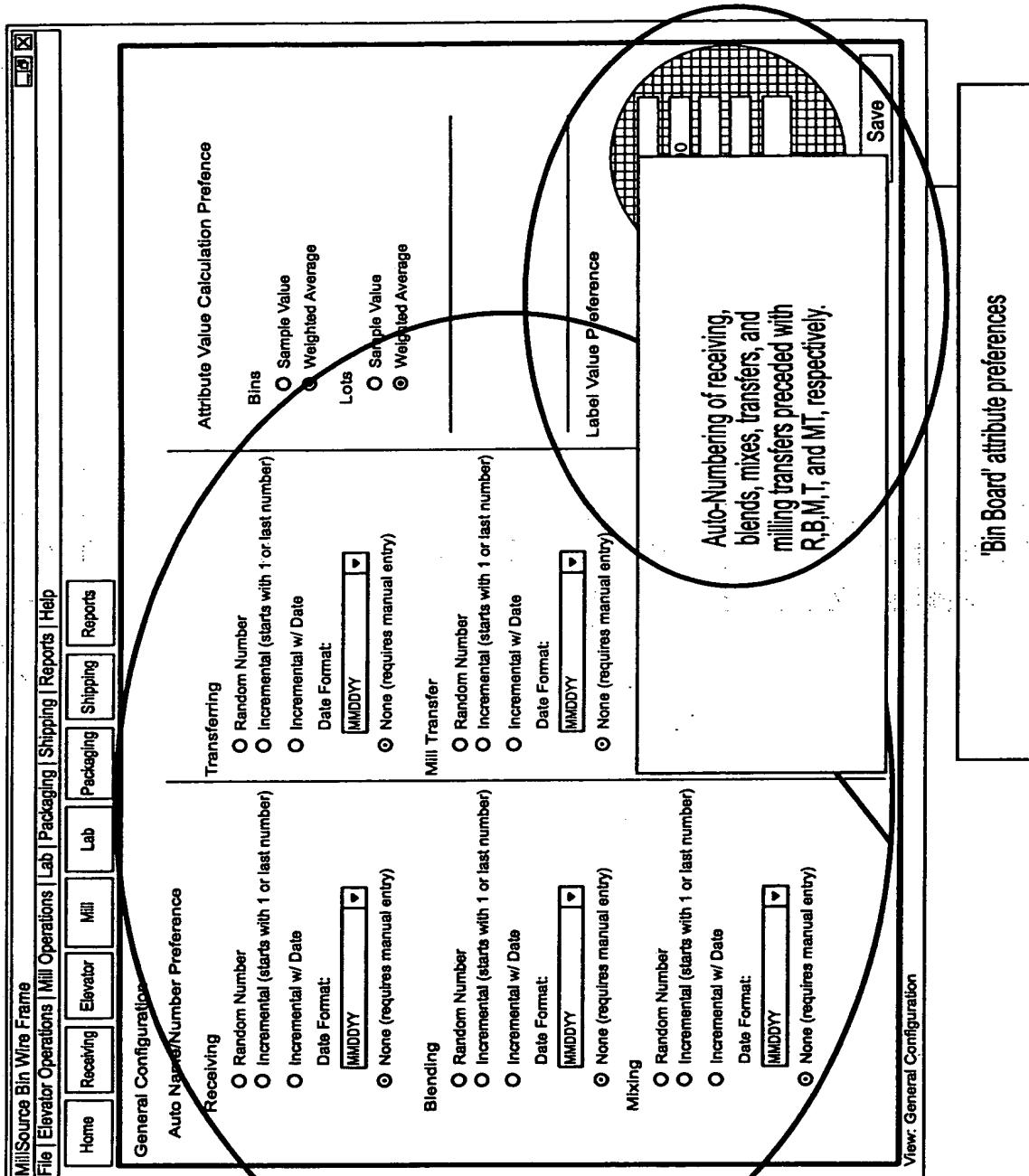


FIG. 24

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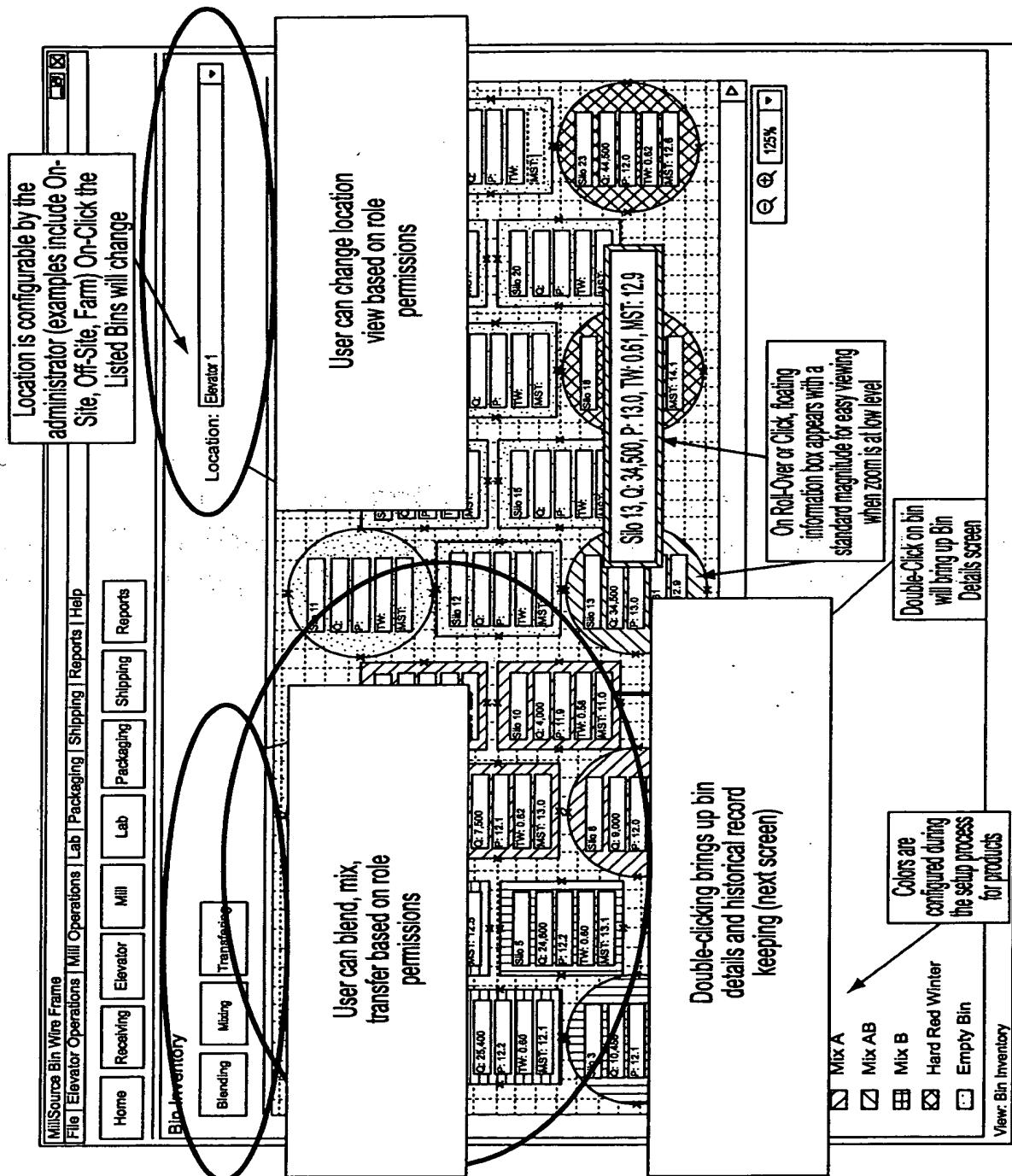


FIG. 25

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FIG. 26

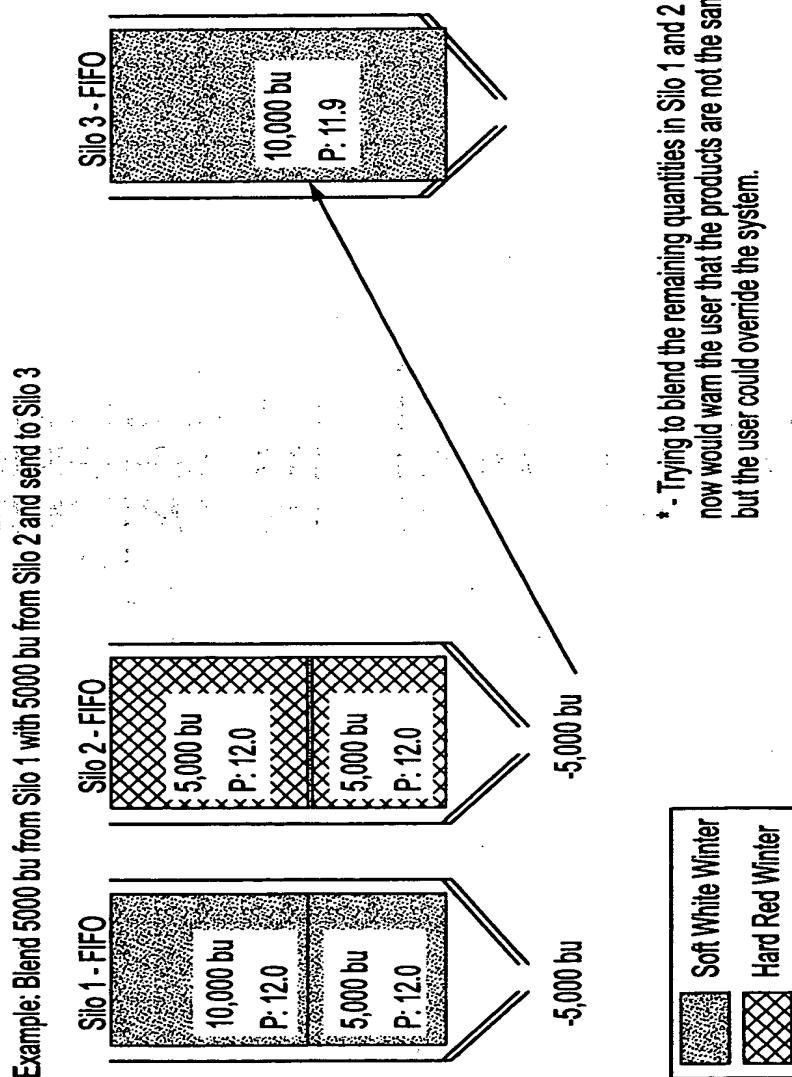


FIG. 27

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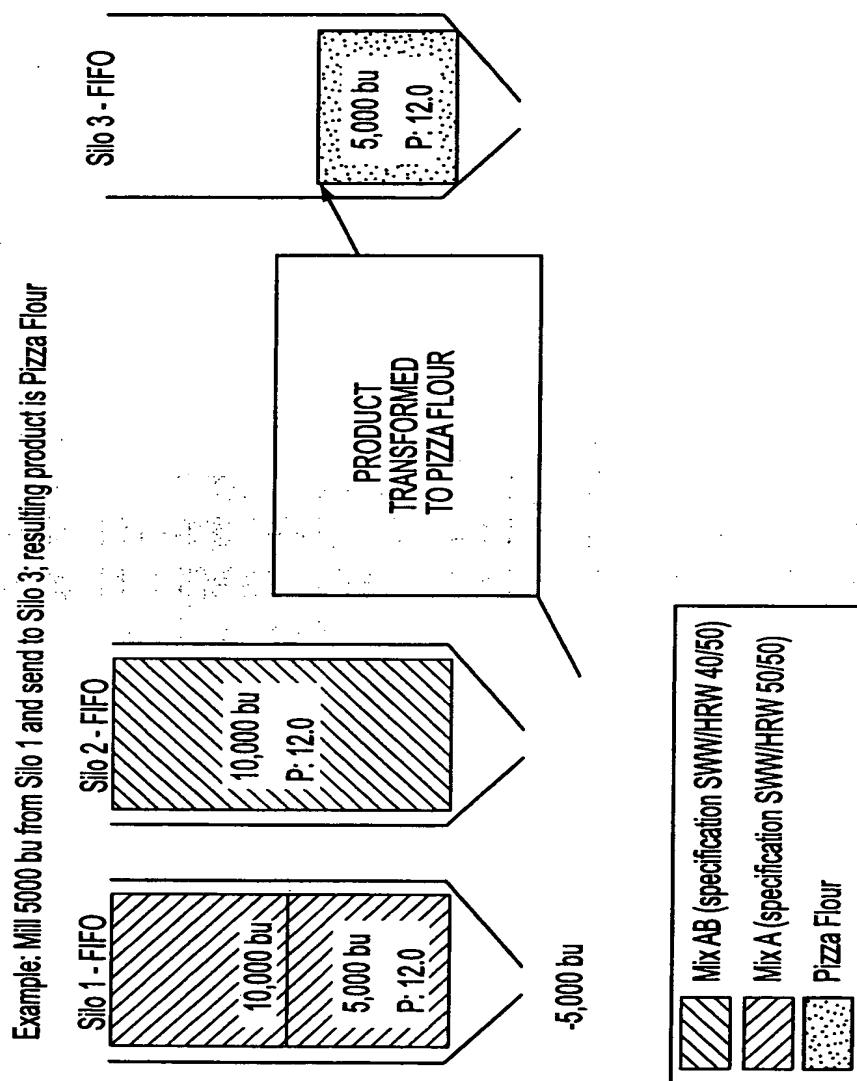


FIG. 28

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FIG. 29

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FIG. 30

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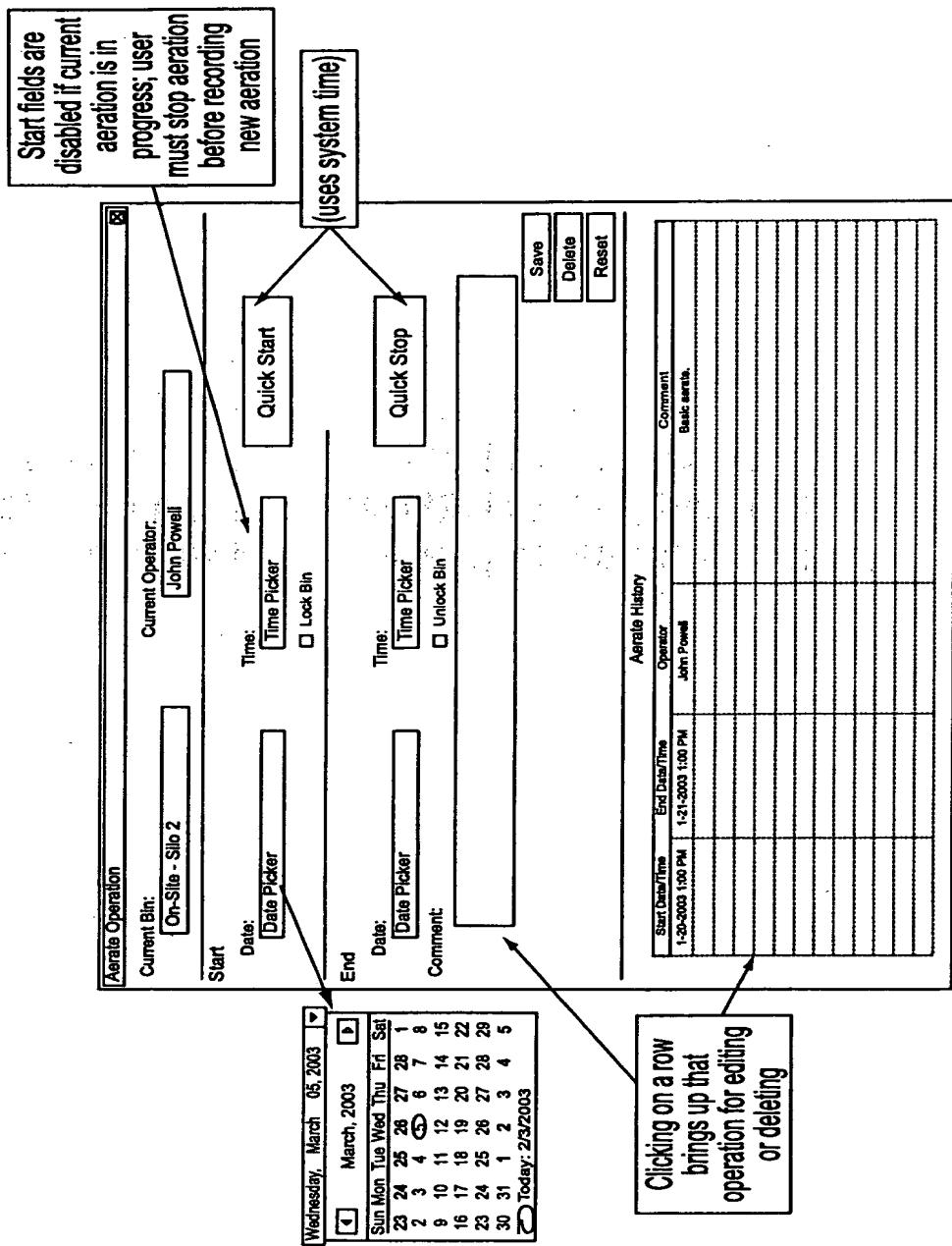


FIG. 31

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FIG. 32